**MUSE Basis of Estimate**

**Element WBS #4**

I. General Information

Task Name: Gas System for Straw chambers

Unique ID Number

Date of Estimate: Dec 10, 2016 (last update)

Estimate Generator: G. Ron, R. Ransome

Cost Category:

 X M&S

 SWF

Comments:

Vendor Quote Number if Applicable\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Drawing Reference Number or Attachment:

Costing Method: Cost based on quotes

Total Task Cost: $24297

Total Contingency: $4130

II. Cost Estimate Breakdown

Cost of each element, along with justification

Assume $1.2 = 1 Euro

Gas Components

5 mixing sets, price from quotes in Euro

Mass Flow controller - 1260 each

Mass Meter - 1576 each

Pressure Meter 2196 each

Connectors 500 each

Total per set 5532 Euro = $6638 each

3 sets $19915

VAT $4381

Total Cost $24297

III. Contingency and risk analysis

With currency fluctuation of 10%, total contingency is 27%, or $4130.

